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Address:

<211> 584
<212> DNA
<213> Homo sapien

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43

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<400> 99
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taacacccca taaatggtag ctaaaagaa aaataaatgc tcataaagtt atgttgaact 300

45

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aagttttaag caaatgaatg attaaatacc 450

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<211> 763
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<211> 722
<212> DNA
<213> Homo sapien

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<211> 162
<212> DNA
<213> Homo sapien

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gaggaacca aagagccact gagaaaaaca acttgctgac aa 162

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<211> 476
<212> DNA
<213> Homo sapien

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cgaggaacca aaagagccac tgcagcatag acaactagtc tcgaccatat tacgccacag 180
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cctgacttta tgtgatcctc ccaccttggc ctcccaaatt gctgagatta caggcgcgag 420
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<211> 580
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<400> 109
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<400> 111

Met Ser Cys Asn Met Leu Phe Tyr Glu Leu Met Phe Asp Leu His Tyr
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Tyr Thr Leu Leu His Met Phe Ala Thr Thr Lys Lys Thr His Asn Asn
 20 25 30

Lys Lys Thr Ala Thr Ala Gln Pro His Pro Pro Lys His Pro His
 35 40 45

<210> 112
 <211> 39
 <212> PRT
 <213> Homo sapien

<400> 112

Met Gly Arg Tyr Ile Tyr Asn Leu Asp Met Glu Glu Gly Glu Met Ser
 1 5 10 15

Glu Asp Ser Thr Lys Phe Val Met Ser Leu Gly Asn Gly Thr Gly Asn
 20 25 30

Glu Glu Thr Trp Glu Cys Ile
 35

<210> 113
 <211> 25
 <212> PRT

49

<213> Homo sapien

<400> 113

Met His Thr Leu Ser Ile Tyr Asn Val Leu Ala Ile Trp Leu Val Val
1 5 10 15

Phe Ile Leu Leu Phe Ile Phe Ser Asn
20 25

<210> 114

<211> 47

<212> PRT

<213> Homo sapien

<400> 114

Met Arg Ala Thr Gly Gln Pro Leu Met Cys Thr Arg Tyr Glu Ser Leu
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Ile Arg Ala Arg Thr Glu Gln His Cys Gly Leu Leu Leu Thr Arg Pro
20 25 30

Ile Lys Ser Met Val Ser Arg Ser Gln Trp His Tyr Lys Lys Ile
35 40 45

<210> 115

<211> 32

<212> PRT

<213> Homo sapien

<400> 115

Met Asn Val Gln Ile Ile Phe His Ser Ile Cys Phe Trp Glu Pro Leu
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Thr Glu Phe Phe Ser Lys Met Ile Glu His Phe Leu Leu Ser Cys Arg
20 25 30

<210> 116

<211> 25

<212> PRT

<213> Homo sapien

<400> 116

Met Glu Tyr Cys Gly Glu Asn Ile Tyr Trp Leu Leu Glu Asn Ser Gln
1 5 10 15

Asn Gln Leu Gly Ser Leu Ile Pro Leu
20 25

50

<210> 117
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<213> Homo sapien

<400> 117

Met His Cys Cys Tyr Tyr Tyr Val Asn Asn Tyr Leu Leu Glu Leu Leu
1 5 10 15

Arg Ile Lys Asn Lys Thr Leu Lys Phe Tyr Pro Tyr Leu Phe Leu Phe
20 25 30

<210> 118
<211> 40
<212> PRT
<213> Homo sapien

<400> 118

Met Glu Asn Thr Arg Val Lys Val Gln Val Lys His Ser Glu Val Ile
1 5 10 15

Thr Met Phe His Lys Thr Ala Ala Tyr Leu Lys Ser Gln Gly Gly Glu
20 25 30

Pro His Asn Thr Trp Gly Lys Ala
35 40

<210> 119
<211> 97
<212> PRT
<213> Homo sapien

<400> 119

Met Ser Phe Leu Lys Ser Ile Ile Phe Tyr Ile Tyr Leu Pro Pro Tyr
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Asp Leu Leu Leu Arg Thr Val Glu Cys Val Arg Ala Ile Met Arg Lys
20 25 30

Arg Thr Thr Asn Ser Thr Ser Ser Ala Glu Trp Val Gly Gln Pro Gln
35 40 45

Ile Ala Ser Trp Arg Ser Tyr Ala Ser Trp Ala Phe Arg Leu Ile Lys
50 55 60

51

Pro Trp Leu Ala Thr Tyr Leu Trp Ser Met Cys Gly Ile Leu Phe Phe
 65 70 75 80

Leu Pro Val Gln Ser Ser Arg Asp Tyr Ile Leu Asp Lys Gly Gly Pro
 85 90 95

Asp

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 <212> PRT
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 1 5 10 15

<210> 121
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 <212> PRT
 <213> Homo sapien

<400> 121

Met Thr Met Lys Ile Ile Gly Arg Met Arg Glu Met Arg Arg Val Arg
 1 5 10 15

Ser Val Asn Asn Arg Asn Lys Pro Gln Val Pro Tyr Lys Trp Pro Pro
 20 25 30

Gly Arg Ile Val Ser Asn Thr Leu Leu Tyr Arg Ser Asn
 35 40 45

<210> 122
 <211> 21
 <212> PRT
 <213> Homo sapien

<400> 122

Met Asn Ile Leu Pro Ser Gly Ser Arg Cys Gly Gln Glu Asp Gly Lys
 1 5 10 15

Glu Gly Val Met Phe
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<210> 123
 <211> 37

52

<212> PRT
<213> Homo sapien

<400> 123

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1 5 10 15

Lys Leu His His His Arg Tyr Thr Thr Gln Lys Ser Tyr Ser Glu Phe
20 25 30

Val His Cys Gly Ser
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<212> PRT
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<400> 124

Met Gly Ser Val Ala His Ala Cys Asn Pro Gln
1 5 10

<210> 125
<211> 70
<212> PRT
<213> Homo sapien

<400> 125

Met Ser Arg Gln Asn Gly Gly Tyr Ser Arg Gln Cys Arg Ala Val Leu
1 5 10 15

Gln Arg Thr Gly Glu Val Met Asp Leu Ser Leu Thr Ser Val Ser Ala
20 25 30

Glu Phe Thr Asp Lys Arg Ile Cys Val His Arg Ser Ala Ile Thr Ser
35 40 45

Arg Gly Ser Lys Glu Gln Glu Ser Ser Gly Asn Ile Ile Gln Ala Pro
50 55 60

Asn Asn Thr Thr Thr Lys
65 70

<210> 126
<211> 32
<212> PRT
<213> Homo sapien

53

<400> 126

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1 5 10 15

Asp Ala Arg Ser Asn Lys Leu Phe Ile Ile Ser Tyr Ile Leu Pro Ser
20 25 30

<210> 127

<211> 28

<212> PRT

<213> Homo sapien

<400> 127

Met Val Lys Gln Arg Asp Leu His Leu Phe Thr Phe Ile Ala Gln Leu
1 5 10 15

Ile Lys Tyr Val Phe Phe Leu Asn Arg Lys Gln Ser
20 25

<210> 128

<211> 63

<212> PRT

<213> Homo sapien

<400> 128

Met Val Thr Phe Leu Val Leu Val Ser Leu Ile Tyr Met Tyr Glu Tyr
1 5 10 15

Ile Ile Phe Phe Phe Phe Phe Phe Leu Glu Lys Lys Ser Ala Leu Gly
20 25 30

Pro Pro Gly Gly Gly Ala Gly Gly Arg Pro Ser Ser Gly His Pro Ser
35 40 45

Pro Leu Arg Gly Gln Ala Phe Leu Thr Thr Ser Ala Leu Pro Ser
50 55 60

<210> 129

<211> 33

<212> PRT

<213> Homo sapien

<400> 129

Met Thr Val Phe Asp Met Gly Val Gln Gly Gly Ile Met Asn Pro Ser
1 5 10 15

Leu Ser Phe Phe Phe Phe Glu Pro Glu Cys Cys Ser Val Thr Gln Ala
 20 25 30

Gly

<210> 130
 <211> 32
 <212> PRT
 <213> Homo sapien

<400> 130

Met Phe Cys Phe Thr Tyr Leu His Asn Asn Pro Lys His Lys Asn Lys
 1 5 10 15

Lys Lys Arg Lys Lys Arg Leu Ile Ser Ile Pro Leu Leu Gln Cys Thr
 20 25 30

<210> 131
 <211> 49
 <212> PRT
 <213> Homo sapien

<400> 131

Met Asn Ser Arg Ala Arg Thr Ile Arg Gln Val Phe Trp Val Pro Lys
 1 5 10 15

Phe Gly Arg Val Cys Tyr Asp Thr Leu Arg Glu Thr Ser Asn Thr Arg
 20 25 30

Ser Leu Leu Ser Leu Gly Ser Asp Arg Thr Thr Ile Ser Lys Ile Ile
 35 40 45

Gly

<210> 132
 <211> 45
 <212> PRT
 <213> Homo sapien

<400> 132

Met Ile Ser Tyr Val Lys Asn Ile Phe His Asn Phe His Gln Lys Lys
 1 5 10 15

Thr Leu Leu Glu Leu Ile Asn Lys Tyr Asn Lys Ala Ala Gly Ile Asn

55

20

25

30

Lys Asn His His Ala Lys Ile Ser His Ile Ala Thr His
 35 40 45

<210> 133
 <211> 19
 <212> PRT
 <213> Homo sapien

<400> 133

Met Gln Ser Ile His Thr Ala Ala Pro Leu Glu His Asp His Lys Pro
 1 5 10 15

Gly Met Arg

<210> 134
 <211> 69
 <212> PRT
 <213> Homo sapien

<400> 134

Met Asp Ile Leu Leu Met Phe His Glu Cys Lys Val Phe Phe Leu Leu
 1 5 10 15

Tyr Leu Cys Leu Phe Ser Leu Ser Arg Met Phe Cys Ser Phe Lys Leu
 20 25 30

His Val Phe Cys Pro Leu Lys Phe Ile Leu Met Leu Phe Tyr Pro Phe
 35 40 45

Ser Cys Ile Ile Asp Lys Ile Val Phe Leu Phe Val Ile Val Asn Gly
 50 55 60

Tyr Ser Ile Glu Met
 65

<210> 135
 <211> 50
 <212> PRT
 <213> Homo sapien

<400> 135

Met Gly Gln His Val Cys Asp Lys Met Leu Phe Lys Gly Leu Cys Pro
 1 5 10 15

56

Thr Arg Leu Glu Cys Thr Tyr Lys Tyr Ala Arg Pro Leu Val Ser Gly
 20 25 30

Ile Leu Ala Phe Glu Asp Gly Ala Ala Arg Arg Arg Phe Gly Arg Glu
 35 40 45

Arg Cys
 50

<210> 136
 <211> 23
 <212> PRT
 <213> Homo sapien

<400> 136

Met Arg Ile Cys Ile Leu Glu Tyr Phe Ser Asn Phe Ser Thr Arg Cys
 1 5 10 15

Phe Lys Ile Gln Thr Leu Ser
 20

<210> 137
 <211> 68
 <212> PRT
 <213> Homo sapien

<400> 137

Met Leu Tyr Leu Pro Ile Pro Val Lys Ile His Phe Thr Phe Pro Ala
 1 5 10 15

Gln Leu Asn Tyr Leu Ile Ala Thr Pro Phe Met Lys Pro Phe Pro Gly
 20 25 30

Gly Asp Val Val His Val Arg Thr Ser Cys Gly Thr Cys Ser Asn His
 35 40 45

Ile Leu Ile Leu Arg Glu Pro Asn Val Ser Phe Ser Gln Val Gly Ala
 50 55 60

Glu Met Lys His
 65

<210> 138
 <211> 51
 <212> PRT
 <213> Homo sapien

57

<400> 138

Met Asp Gln Glu Lys Arg Gly Thr Ser Val Lys His Phe Phe Ala Gly
1 5 10 15

Phe Ile Trp Ser Phe Ser Ile Val Ser Ser Lys Pro Asp Arg Asn Tyr
20 25 30

Ile Ser Phe Tyr Thr Leu Ile Ser Lys Gly Ile Lys Asn Ile Ile Ser
35 40 45

Ile Thr Leu
50

<210> 139

<211> 53

<212> PRT

<213> Homo sapien

<400> 139

Met Val Leu Glu Ser Cys Leu Ser Ser Leu Ile Ile Glu Leu Leu Leu
1 5 10 15

Arg Phe Lys Asn Pro Cys Ser Gly Thr Lys Ser Phe Pro Gly Ser Ser
20 25 30

Thr Leu His Ser Leu Ser Thr Leu Tyr Ser Ser Ser Gln Phe Ser Phe
35 40 45

Pro Phe Pro His Tyr
50

<210> 140

<211> 31

<212> PRT

<213> Homo sapien

<400> 140

Met Ser Tyr Phe Ile Leu Ile Phe Ile Phe Gln Asn Phe Thr Lys Lys
1 5 10 15

Val Phe Lys Tyr Met Glu Asp Phe Lys Glu Leu His Ser Glu Gln
20 25 30

<210> 141

<211> 27

58

<212> PRT
<213> Homo sapien

<400> 141

Met Ser Ser Ile Ile Arg Phe Tyr Ile Arg Gly His Gln Thr Thr Lys
1 5 10 15

His Arg Ala Asn Gln Ala Thr Asp Ala Phe Trp
20 25

<210> 142
<211> 59
<212> PRT
<213> Homo sapien

<400> 142

Met Leu Cys Leu Arg Pro Thr Glu Asn Ile Cys Ala Gly Lys Ser Pro
1 5 10 15

Phe Gly Tyr Cys Gly Pro His Leu Val Ser Ser His Asn Leu Leu Ile
20 25 30

Pro Pro Tyr Ile Ile Lys Phe Ser Phe Gln His Cys Tyr Lys Arg Met
35 40 45

Val Gln Ala Thr Leu Cys Leu Thr Phe Leu His
50 55

<210> 143
<211> 12
<212> PRT
<213> Homo sapien

<400> 143

Met Lys Lys Ser Asn Ser Asp Ser Leu Leu Phe Phe
1 5 10

<210> 144
<211> 54
<212> PRT
<213> Homo sapien

<400> 144

Met Cys Ser Asp Lys Asn His Gly Leu Ser Leu Lys Glu Lys Thr Arg
1 5 10 15

Val Ala Val Glu Glu His Leu Val Val Ser Asp Thr Ala Thr Gln Phe

59

20

25

30

Ser Met Leu Thr Lys Ile Tyr Cys Val Cys Ser Gln Thr Leu Leu Ile
 35 40 45

Leu Ala Ile Val Ile Ile
 50

<210> 145
 <211> 58
 <212> PRT
 <213> Homo sapien

<400> 145

Met Met Lys Pro Trp Glu Thr Gln Glu Arg His Arg Glu Val Ala Ser
 1 5 10 15

Glu Ser Arg Arg Val Ala Pro Leu Arg Asn Phe Gly Leu Gly Asp Arg
 20 25 30

Gly Glu Thr Leu Phe Pro Lys Lys Lys Lys Lys Lys Arg Thr Gln Ala
 35 40 45

Thr Leu Asp Glu Gly Pro Pro Leu Ser Ser
 50 55

<210> 146
 <211> 98
 <212> PRT
 <213> Homo sapien

<400> 146

Met Ile Lys Ala Asp Leu Ser Asp Ile Ser Phe Pro Lys Lys Ser Ala
 1 5 10 15

Leu Met Glu Tyr Thr Gly Ser Leu Leu Leu Cys Ser Gly Asp Lys Gln
 20 25 30

Ala Pro Ile Lys Ala Glu Ile Asn Leu Leu Gln Leu Val Ser Lys Arg
 35 40 45

His Lys Val Ser Lys Glu Lys Leu Leu Phe Cys Pro Lys Gln Val Arg
 50 55 60

Tyr Leu Gly Pro Leu Met Ser Lys Lys Gly Leu Phe Ile Asn Leu Asp
 65 70 75 80

Arg Val Lys Arg Ile Leu Ala Phe Leu Ser Pro Lys Thr Lys Lys Gln
 85 90 95

Lys Phe

<210> 147
 <211> 48
 <212> PRT
 <213> Homo sapien

<400> 147

Met Ser Tyr Tyr Tyr Phe Arg Asn Asn Asn Asn Asp Gly Ile Ile Tyr
 1 5 10 15

Asn Asn Lys Ser Asn Phe Ser Gly Ser Ser Val Lys Lys Asn Thr Gln
 20 25 30

Phe Cys Val Ser Leu His Ser Leu Ile Thr Leu His Glu Leu Ile Phe
 35 40 45

<210> 148
 <211> 28
 <212> PRT
 <213> Homo sapien

<400> 148

Met Ile Trp Gly Ser Cys Gly Phe Met Phe Arg Ser Ala Ser Phe Ala
 1 5 10 15

Ala Phe Val Leu Leu Ile Pro Ser Arg Gln Asp Leu
 20 25

<210> 149
 <211> 96
 <212> PRT
 <213> Homo sapien

<400> 149

Met Gly Leu Leu Lys Asn Ser Asp Arg Asp Val Cys Val Cys Val Cys
 1 5 10 15

Val Cys Val Cys Met Val Leu Cys Arg Ile Leu Leu Arg Arg Ser Ser
 20 25 30

61

Val Tyr Ile Leu Ser Ser Pro Thr Lys Cys Gly Phe His Leu Lys Met
 35 40 45

Trp Pro Val Thr Gln Ala Ser His Tyr Leu Thr Gln Ala Ile Ser Val
 50 55 60

Val Leu Gln Gln Asp Arg Leu Val Ser Tyr Lys Glu Glu Met Asn Tyr
 65 70 75 80

Lys Val Thr His Lys Ile Gly His Leu Ser Ile Leu Val Ala Val Lys
 85 90 95

<210> 150
 <211> 54
 <212> PRT
 <213> Homo sapien

<400> 150

Met Glu Lys Glu Ile Phe Leu Gly Leu Arg Asn Gln Gln Thr Leu Val
 1 5 10 15

Trp Ala Trp Tyr Arg Val Ser Ala Gln Tyr Ile Ile Leu Asn Lys Gln
 20 25 30

Ile Lys Leu Ile Ile Val Thr Leu Gly Arg Lys Gln Thr Pro Ser Gln
 35 40 45

Thr Leu Lys Glu Gln Ser
 50

<210> 151
 <211> 47
 <212> PRT
 <213> Homo sapien

<400> 151

Met Cys Lys Pro Ser Cys Arg His His Phe Ser Thr Pro Phe Leu Ser
 1 5 10 15

Cys Phe Gln Asp Ser Leu Cys Leu Ile Phe Asp Ser Leu Ile Ile Ile
 20 25 30

Cys Leu Gly Glu Phe Leu Phe Gly Trp Asn Leu Ile Gly Gly Leu
 35 40 45

<210> 152

62

<211> 21
 <212> PRT
 <213> Homo sapien

<400> 152

Met Val Ser Val Pro Ile Ser Gln Thr Asp Gly Lys Leu Val Ile Gln
 1 5 10 15

Gln Val Leu Asp Arg
 20

<210> 153
 <211> 42
 <212> PRT
 <213> Homo sapien

<400> 153

Met Leu Leu Glu Ile Tyr Ser Leu Phe Pro Ser Cys Ser Ile Phe Trp
 1 5 10 15

Cys Val Val Phe Gly Asn Ile Ile Tyr Asp Leu Cys Val Tyr Asp Leu
 20 25 30

Phe Val Ile Phe Phe Ile Ile Tyr Cys Leu
 35 40

<210> 154
 <211> 30
 <212> PRT
 <213> Homo sapien

<400> 154

Met Asn Phe Leu Met Val Ile Asn Arg Glu Ala Lys Lys Pro Val Ser
 1 5 10 15

Pro Arg Met Lys Pro Asp Ser Met Lys Arg Thr Gly Ser Trp
 20 25 30

<210> 155
 <211> 156
 <212> PRT
 <213> Homo sapien

<400> 155

Met Asp Ile Ile Ile Ile Leu Gln Gly Met Leu Lys Ile Lys Met Cys
 1 5 10 15

63

Tyr Arg Ile Pro Ile Leu Leu Phe Leu Phe Phe Phe Leu Phe Asp Leu
 20 25 30

Ile Thr Glu Lys Ser Ile Phe Ser Asp Arg Gln Lys Ser Pro Phe Tyr
 35 40 45

Ser Ala His Gln Tyr His Ala His Phe Arg Leu Ser Pro Asn Met Leu
 50 55 60

Ser Ser Leu Leu Ser Gly Gln Pro Pro Pro His Pro Pro Thr Thr Gln
 65 70 75 80

Gln Trp Thr Thr Gly Pro His His His Asn Arg Pro Gln Thr Arg Gly
 85 90 95

Asp Thr Pro His Ser Arg Gln Gly Gly Arg Thr Thr Arg Pro Tyr Lys
 100 105 110

Gly Arg Thr Ala Pro Thr Gly Tyr Ala Ser Ser Arg Thr Gln Thr Gln
 115 120 125

Arg Arg Ser Leu Arg Ser Gly Ala Arg Thr Ala Arg Asp Ser Trp Arg
 130 135 140

Pro Leu Ser Glu Arg Leu Ser Gly Pro Thr Gln Ile
 145 150 155

<210> 156
 <211> 46
 <212> PRT
 <213> Homo sapien

<400> 156

Met Leu Phe Gln Phe Pro Ala Trp Arg Arg Lys Arg Ser Gly Asn Ile
 1 5 10 15

Asn Ile Gln Tyr Val Asn Pro Ser Tyr Ser Leu Trp Phe Pro Trp Pro
 20 25 30

His Ser Ile Cys Ser Phe Ser Glu Pro Leu Phe Tyr Pro Leu
 35 40 45

<210> 157
 <211> 24
 <212> PRT
 <213> Homo sapien

64

<400> 157

Met His Ile Ser Cys Glu Asn Pro Asn Arg Asn Leu Val Leu Ser Ser
 1 5 10 15

Tyr Arg Leu Lys Leu Met Asn Thr
 20

<210> 158

<211> 19

<212> PRT

<213> Homo sapien

<400> 158

Met Lys Ile Phe Phe Leu Asn Phe Leu Phe Gln Thr Phe Ser Ser Leu
 1 5 10 15

His Asn Val

<210> 159

<211> 51

<212> PRT

<213> Homo sapien

<400> 159

Met His Phe Leu Glu Thr Gln Pro Arg Asn Ser Asp Leu Val Gly Leu
 1 5 10 15

Lys Gln Ser Gln Val Arg Ser Leu Phe Lys Trp Glu Cys Phe Phe Val
 20 25 30

Leu Gly Phe Gly Phe Glu Phe Phe Gly Gly Val Val Tyr Ser Leu Glu
 35 40 45

Asn Ser Val
 50

<210> 160

<211> 91

<212> PRT

<213> Homo sapien

<400> 160

Met Lys Tyr Leu His Leu His Phe His Ser Asn Asn Glu Val His Ser
 1 5 10 15

65

Ile Lys Ala Glu Cys Leu Ile Ser Phe Pro Leu Pro Ser Ser Leu Leu
 20 25 30

Leu Leu Ser Ile His Phe Pro Val Lys Pro Pro Ser Phe Pro Ser Phe
 35 40 45

Cys Ser Thr Pro Gln Ile Leu Leu Ser Val Val Ile His Phe Leu Tyr
 50 55 60

Phe Phe Leu Ile Pro Ser Lys Ser Leu Thr Ser Ala Thr Phe Ile Phe
 65 70 75 80

Phe Leu Leu Leu Leu His His Pro Cys Phe Leu
 85 90

<210> 161
 <211> 46
 <212> PRT
 <213> Homo sapien

<400> 161

Met Asn Phe Asn Asn Val Asn Phe His Asp Lys Asn Leu Tyr Glu Gly
 1 5 10 15

Ala Gly Asn Leu Gln Gln Pro Ile Ser Cys Ile Phe Val His Ser Asp
 20 25 30

Cys Ile Ile Met Ile Arg Lys Asn Ala Ser Ser Tyr Asn Tyr
 35 40 45

<210> 162
 <211> 53
 <212> PRT
 <213> Homo sapien

<400> 162

Met Phe Lys Arg Lys Ser Val Asn Trp Lys Asn Ser Arg Ile Leu Asn
 1 5 10 15

Asn Phe Arg Ile Met Gly Met Leu Lys Ser Ala Met Asp Lys Cys Lys
 20 25 30

Phe Pro Asn Leu Lys Lys Lys Lys Arg Asn Leu Arg His Phe Trp Ser
 35 40 45

66

Gln Val Phe Arg Ile
50

<210> 163
<211> 22
<212> PRT
<213> Homo sapien

<400> 163

Met Cys Ile Gly Ser Gln Ile Ile Leu Asp Phe Arg Cys Gly Ile Thr
1 5 10 15

Phe Thr Leu Gln Ser Arg
20

<210> 164
<211> 62
<212> PRT
<213> Homo sapien

<400> 164

Met Ile Tyr Gly Ala Val Cys Cys Asn Arg Leu Arg Ala Ala Pro Gly
1 5 10 15

Gln Val Pro Gly Ser Ser Ala Leu Thr Pro Thr Leu Leu His Ser Gly
20 25 30

Asn Phe Ser Leu Glu Thr Met Val Gln Gln His Gly Ala Ile Ser Ile
35 40 45

Ile Ile Tyr Gly Ile Ala Leu Gln His Ser Trp His Ser Gln
50 55 60

<210> 165
<211> 48
<212> PRT
<213> Homo sapien

<400> 165

Met Val Pro Tyr Pro Leu Ser His His Ser Leu Pro His Phe Ser Lys
1 5 10 15

Ser Val Ser Phe Thr Trp Thr Pro Phe Leu Ser Leu Thr Trp Phe Tyr
20 25 30

Gln Val Ser Ser Thr Cys Pro Ala Ser Ala Arg Ile Thr Asp Phe Gly
35 40 45

67

<210> 166
 <211> 59
 <212> PRT
 <213> Homo sapien

<400> 166

Met Ile Leu Ile Thr Asn Asn Arg Phe His Arg Asn Gly Ala Ser Ser
 1 5 10 15

Phe Pro Thr Thr Ser Thr Tyr Thr Val Ala Tyr Gln Ser Ser Thr Asn
 20 25 30

Val Gly Val Asn Tyr Gln Gly Phe Ile Ser Tyr Ile Phe Ser Gly Val
 35 40 45

Arg Arg Ser Gly Val Gly Lys Ser His Pro Thr
 50 55

<210> 167
 <211> 128
 <212> PRT
 <213> Homo sapien

<400> 167

Ala Phe Ala Arg Ile Ile Glu Gln Asp Ala Val Val Ser Glu Arg Gly
 1 5 10 15

Lys Asn Trp Gly Leu Ser Ser Val Tyr Lys Gln Gln Trp Phe Ala Met
 20 25 30

Leu Arg Ala Glu Gln Asp Ser Glu Val Gly Pro Gln Glu Ile Asn Lys
 35 40 45

Glu Glu Leu Glu Gly Asn Ser Met Arg Cys Gly Arg Lys Leu Ala Lys
 50 55 60

Asp Gly Glu Tyr Cys Trp Arg Trp Thr Gly Phe Asn Phe Gly Phe Asp
 65 70 75 80

Leu Leu Val Thr Tyr Thr Asn Arg Tyr Ile Ile Phe Lys Arg Asn Thr
 85 90 95

Leu Asn Gln Pro Cys Ser Gly Ser Val Ser Leu Gln Pro Arg Arg Ser
 100 105 110

68

Ile Ala Phe Arg Ala Asp Glu Ile Ser Pro Pro His Ser Ser Ser Leu
115 120 125

<210> 168
<211> 25
<212> PRT
<213> Homo sapien

<400> 168

Met Ser Tyr Asn Arg Ser Val Ser Ile Leu Leu Trp Glu Gln Gly Ile
1 5 10 15

Ile Gly Lys Glu Lys Leu Glu Asn Pro
20 25

<210> 169
<211> 77
<212> PRT
<213> Homo sapien

<400> 169

Met Ile Lys Val Gly Leu Phe His Ser Pro Cys Asp Val Ser Arg Leu
1 5 10 15

Ser Ser Ala Thr Cys Ile Glu Arg Arg Ser Cys Tyr Thr Glu Met Ala
20 25 30

Leu Tyr Leu Cys Glu Lys Ser Asn Trp Leu Leu Phe Leu Val Asp His
35 40 45

Val Ser Gly Leu Trp Tyr Ser Cys Ser Asn Ile Ser Val Phe Leu Thr
50 55 60

Ser Leu Thr Ile Pro His Tyr Leu Thr Tyr Tyr Ser Cys
65 70 75

<210> 170
<211> 150
<212> PRT
<213> Homo sapien

<400> 170

Tyr Lys Val Asn Leu Gln Lys Ser Thr Thr Ser Lys Ala Val Glu Asn
1 5 10 15

Ala Ile His Lys Thr Phe Ile Ile Ala Ser Lys Lys Arg Lys Tyr Ser

69

20

25

30

Glu Ile Asn Leu Thr Lys Ile Val Ala Asp Leu Tyr Ile Lys Asn Tyr
 35 40 45

Glu Ile His Val Arg Glu Ile Lys Glu Asn Leu Asn Arg Arg His Ile
 50 55 60

Pro Cys Ser Trp Ile Gly Arg Val Ser Ile Val Lys Met Pro Met Leu
 65 70 75 80

Pro Lys Leu Ile Tyr Ala Tyr Val Thr Ile Ser Ile Lys Ile Pro Ala
 85 90 95

Gly Ile Phe Val Asp Ile Gly Gln Lys Leu Ile Leu Lys Phe Ile Trp
 100 105 110

Lys Lys Arg Thr Arg Ile Ala Arg Thr Ile Leu Arg Lys Asn Lys Ile
 115 120 125

Glu Arg Phe Thr Leu Phe Asp Ile Lys Ser Tyr Phe Asn Ala Val Val
 130 135 140

Gly Lys Ile Met Trp Tyr
 145 150

<210> 171
 <211> 48
 <212> PRT
 <213> Homo sapien

<400> 171

Met Cys Phe Cys Gly Pro Asn Lys Leu Cys Pro Lys Pro Leu Tyr Val
 1 5 10 15

Leu Gln Ala Cys Gly Ile Val Leu Lys Ile Ile Tyr Ile Pro Pro Lys
 20 25 30

Ile Ile His Thr Ser Leu Ser Pro Phe Ser Leu Arg Arg Arg Asp Ile
 35 40 45

<210> 172
 <211> 55
 <212> PRT
 <213> Homo sapien

70

<400> 172

Met Phe Phe Leu Tyr Cys Pro Ser Ile Ser Ile Phe Leu Gly Leu Thr
 1 5 10 15

Ser Val Phe Cys Phe Asn Glu Thr Phe Pro Leu Asp Ile Pro Pro Tyr
 20 25 30

Gly Asn Gly Phe Met Val Ala Pro Ala Glu Ala Val Pro Arg Gln Pro
 35 40 45

Glu Cys Gln His Thr Ala Pro
 50 55

<210> 173

<211> 34

<212> PRT

<213> Homo sapien

<400> 173

Met Val Ser Val Ala Leu Thr Pro Arg Cys His Tyr Asn Arg Ser Ser
 1 5 10 15

Gly Asp Cys Ile Lys Met Ser Gly Cys Gly Gly Val Pro Val Arg Phe
 20 25 30

Tyr Leu

<210> 174

<211> 35

<212> PRT

<213> Homo sapien

<400> 174

Met Ile Gln Lys His Gly Ser Pro His Ile His Pro His Thr Gln Met
 1 5 10 15

Lys Ser Ala Glu Met Val Leu Ile Lys Ala Asn Val Lys Phe Ile Phe
 20 25 30

Pro Tyr Ile
 35

<210> 175

<211> 72

<212> PRT

71

<213> Homo sapien

<400> 175

Met Trp Ser Glu Tyr His Leu Pro Thr Arg Gly Ala Pro Met Pro Pro
 1 5 10 15

Gly Tyr Pro Pro Arg Trp Phe Pro Arg Val Gly Val Pro Leu Val Thr
 20 25 30

Ala Arg Pro Val Cys Trp Asp Ser Gly Leu Cys Arg Gly Leu Pro Ala
 35 40 45

Arg Gly Thr Pro Arg Leu His Leu Leu Pro Leu Val Ser Val Gly Met
 50 55 60

Pro Cys Cys Pro His Arg Thr Pro
 65 70

<210> 176

<211> 126

<212> PRT

<213> Homo sapien

<400> 176

Met Gly Thr Tyr Phe Asn Asn Asn Lys Gln Thr Tyr Arg Thr Asn Asn
 1 5 10 15

Thr His Arg Leu Asp Thr Ile Tyr His Met Thr Cys Arg Trp Ala Pro
 20 25 30

Thr Arg His Gly Gln Val His Phe Pro Val Leu Asn Met Thr Trp Ala
 35 40 45

Gln Arg Thr Arg Gly Ser Ala Pro Ser Phe Ile Thr Tyr Leu Leu Thr
 50 55 60

Cys Asp Ser Val Ser Trp Val Trp Asp Thr Val Cys Ser Arg Pro Gly
 65 70 75 80

Arg Ala Lys Phe Tyr Glu Pro Arg Arg Arg Lys Arg Asp Lys Leu Glu
 85 90 95

Arg Arg Cys Thr Ser Lys Cys Asp Ala Glu Glu Arg Lys Arg Ser Val
 100 105 110

72

Leu Tyr Val Ile Ser Ser Gly Trp Ala Arg Thr Asp Gln Leu
 115 120 125

<210> 177
 <211> 64
 <212> PRT
 <213> Homo sapien

<400> 177

Met Ile Ala Ile His Ser Leu Phe Asn Phe Trp Glu Pro Trp Gly Gly
 1 5 10 15

Pro Arg Arg Thr Val Leu Cys Cys Val Arg Ile Tyr Lys Gly Leu Leu
 20 25 30

Glu Ser Asp Ile Trp Ser Lys Gln Asp Arg Leu Ser His Arg Lys Ile
 35 40 45

Phe Phe Ser Val Leu Gln Ile Lys Lys Leu Arg Asn Thr Val Ile Met
 50 55 60

<210> 178
 <211> 85
 <212> PRT
 <213> Homo sapien

<400> 178

Met Gly Glu Met Ile Gly Val Ala Lys Tyr Pro Gly Gly Pro Arg Arg
 1 5 10 15

Pro Leu Ile Thr Val Ser Cys Phe Ile Trp Gly Val Arg Glu Ser Lys
 20 25 30

Leu Cys Asp Gln Ile Cys Glu Phe Leu Val Lys Phe Gln Leu Thr Ser
 35 40 45

Arg Phe Thr Pro Gln Ala Ile Thr Leu Leu His Leu Val Thr Thr Lys
 50 55 60

Gly Ser Phe Ser Asn Phe Phe Leu Pro Thr Phe Pro Leu Leu Thr Leu
 65 70 75 80

Phe Phe Thr Lys Phe
 85

<210> 179

73

<211> 34
<212> PRT
<213> Homo sapien

<400> 179

Met His Ile Tyr Ser Thr Phe Phe Ser Tyr Leu Thr Asn Lys Tyr Thr
1 5 10 15

Glu His Tyr Val Tyr Asn Val Leu Leu Arg Pro Ile Thr Tyr Arg Asn
20 25 30

Ala Ile

<210> 180
<211> 42
<212> PRT
<213> Homo sapien

<400> 180

Met Tyr His Asn Gly Arg Asn Pro Arg Lys Pro Pro Asp Pro Gly Val
1 5 10 15

Phe Thr Leu Val Arg Thr Asn Phe Lys Glu Val Leu Val Leu Gln Lys
20 25 30

Arg Glu Leu Lys Ala Lys Lys Pro Thr Gly
35 40

<210> 181
<211> 45
<212> PRT
<213> Homo sapien

<400> 181

Met Asp Arg Asn Val Met Asp Ser Asn Gly Met Gly Trp Val Glu Met
1 5 10 15

Gly Leu Asp Arg Met Gly Ile Glu Arg Glu Trp Asn Ala Met Lys Trp
20 25 30

Asn Gly Leu Asp Gln Asn Gly Leu Glu Arg Asn Val Pro
35 40 45

<210> 182
<211> 54
<212> PRT

74

<213> Homo sapien

<400> 182

Met Cys Trp Asn Ser Ala Trp Ala Gly Thr Ile Asn Asn Tyr Thr Arg
1 5 10 15

Thr Thr Gly Val Asn His Asp Ile Ser Pro Thr Asn Arg Asp Asn Met
20 25 30

Val Thr Phe Leu Arg Gly Ser His Arg Glu Gln Tyr Pro Leu Leu Phe
35 40 45

Gln Asn Leu Phe Tyr Phe
50

<210> 183

<211> 112

<212> PRT

<213> Homo sapien

<400> 183

Met Val Leu Gly Glu Ala Cys Asp Ser Gly Asp Cys Arg Glu Gly Tyr
1 5 10 15

Arg Cys Gly Gly Asn Asp Leu Ile Gly Ser Lys Val Val Gln Asp Cys
20 25 30

Phe Ala Leu Gly Trp Leu Val Leu Ser Asn Glu Ser Gly Ile Gly Thr
35 40 45

Lys Asp Val Leu Val Val Ser Arg Gly Lys Val Glu Asp Ala Leu Ser
50 55 60

Pro Glu Asp Gly Asp Arg Asp His Glu Leu Val Glu Glu Glu Arg Arg
65 70 75 80

Arg Ala Arg Val Trp Arg Gln Ile Cys Gly Ala Arg Ser Cys Lys Ser
85 90 95

Arg Arg Gly Cys Gly Trp Ser Val Asp Thr Pro Leu Cys Arg Trp Glu
100 105 110

<210> 184

<211> 71

<212> PRT

<213> Homo sapien

75

<400> 184

Met Phe Ile Ser Leu Cys Val Asp Asn Thr Gly Glu Gly Leu Trp Tyr
1 5 10 15

Asn Val Thr Phe His Ser Val Gly Ser Gly Ala Ile Ala Ala Leu Leu
20 25 30

Pro Tyr Val Cys Gly Cys Val Lys Asp Leu Thr His Phe Phe Ser Met
35 40 45

Asn Thr Ser Glu Ile Ile Ser Ile Asn Ser Gly Lys Tyr Leu Ser Asn
50 55 60

Asn Ile Asn Glu Asn Ser Arg
65 70

<210> 185
<211> 49
<212> PRT
<213> Homo sapien

<400> 185

Met Trp Thr Tyr Cys Ile Lys Gln Cys Leu Met Leu Asn Leu Cys Lys
1 5 10 15

Arg Leu Trp Leu Lys Tyr Asn Ser Leu Val Cys Phe Lys Pro Cys Glu
20 25 30

Phe Phe Cys Met Cys Leu Val Asn Gly Thr Ile Tyr Ile Val Phe Phe
35 40 45

Ser

<210> 186
<211> 141
<212> PRT
<213> Homo sapien

<400> 186

Met Tyr Ile Trp Val Asn Arg Ser Asn Lys Gly Asn Gln Tyr Thr His
1 5 10 15

His Cys Lys His Leu Leu Phe Val Val Cys Ser Glu Asn Ile Gln Asn
20 25 30

76

Pro Phe Leu Phe Leu Gly Ser Met Phe His Ile Pro Cys His Trp Ser
 35 40 45

Tyr Val Phe Val Phe Leu Cys Gln Tyr His Val Ala Phe Asp Thr Val
 50 55 60

Thr Leu Gly Tyr Thr Phe Glu Ser Gln Gly Ser Thr Glu Cys Leu Gln
 65 70 75 80

Leu Phe Ile Ile Phe Ile Cys Val His Gln Thr Ile Leu Phe Glu Thr
 85 90 95

Ile Thr Pro Gln Pro Ile Tyr Tyr Arg Leu Pro Phe Asn Asn Thr Thr
 100 105 110

Thr His Phe Tyr Lys Gln Tyr Ile Lys Lys Gln Leu Leu Tyr Ile Tyr
 115 120 125

Pro Leu Tyr Thr Gln Lys Met Cys Asn Glu Cys Gly Lys
 130 135 140

<210> 187
 <211> 49
 <212> PRT
 <213> Homo sapien

<400> 187

Met Gly Leu Asp Cys Asp Pro Leu Arg Cys Gln Gly Tyr Val Asn Val
 1 5 10 15

Lys Ser His Leu Cys Ser Lys Phe Phe Ile Tyr Thr Gly Glu Leu Leu
 20 25 30

Ser Ile Lys Ile Gln Val Ser Thr Tyr Val Val Gly Ser Gly Tyr Arg
 35 40 45

Val

<210> 188
 <211> 150
 <212> PRT
 <213> Homo sapien

<400> 188

77

Met Ser Lys Lys Lys His Ile Gln Lys Asn Gly Glu Glu Glu Lys Glu
1 5 10 15

Glu Glu Glu Glu Arg Ala Arg Gly Arg Lys Gly Glu Arg Lys Arg Lys
20 25 30

Lys Lys Arg Asp Ile Gly Glu Glu Glu Asn Lys Glu Lys Arg Lys Arg
35 40 45

Arg Gly Glu Glu Lys Gly Arg Glu Glu Arg Lys Lys Gly Gly Ser Lys
50 55 60

Glu Gly Ala Arg Arg Thr Ala Glu Lys Arg Arg Gly Leu Arg Gly Arg
65 70 75 80

Ser Gly Lys Lys Arg Arg Gly Gly Gly Gly Thr Arg Arg Arg Asp Arg
85 90 95

Gly Arg Arg Glu Arg Glu Arg Thr Glu Glu Arg Arg Arg Arg Gly Lys
100 105 110

Thr Lys Arg Gln Gln Thr Arg Glu Gln Asp Lys Glu Arg His Asp Glu
115 120 125

Val Arg Arg Glu Lys Gly Glu Arg Gln Lys Arg Lys Arg Val Ile Arg
130 135 140

Glu Lys Trp Arg Ser Gln
145 150

<210> 189
<211> 41
<212> PRT
<213> Homo sapien

<400> 189

Met Arg Thr Leu Tyr Lys Asn Lys Phe Phe Lys Glu Leu Ile Leu Asn
1 5 10 15

Cys Ile Leu Gln Val Asn Phe Thr Lys Gly Arg Asn Leu Ser Tyr Arg
20 25 30

Leu Ser Lys Thr Tyr Cys Lys Ala Thr
35 40

<210> 190
<211> 60
<212> PRT
<213> Homo sapien

<400> 190

Met Cys Arg Val His Ser Pro His Phe Leu Val Arg Ser Asp Phe Asp
1 5 10 15

Ile Ser Ser Val Lys Met Glu Leu Ser Thr Pro Ser Phe Ile Ser Lys
20 25 30

Ala Thr Cys Gly Gly Gln Leu Val Val Ala His Ala Cys Asn His Ser
35 40 45

Pro Ser Gly Arg Pro Thr Cys Pro Tyr Arg Ile Ala
50 55 60

<210> 191
<211> 24
<212> PRT
<213> Homo sapien

<400> 191

Met Lys Asp Ser Lys Asp Gly Ile Lys Lys Ser Arg Gly Ser Gln Gly
1 5 10 15

Asn Leu Val Ser Cys Arg Leu Val
20

<210> 192
<211> 44
<212> PRT
<213> Homo sapien

<400> 192

Met Ile Thr Leu Trp Ser Gln Cys Cys Leu Leu Leu Tyr Phe Tyr Phe
1 5 10 15

Val Val Trp Leu Phe Ser Tyr Leu Leu Asp Ser Phe Ile Arg Asn Ile
20 25 30

Val Val Ala Ile Leu Ile Leu Thr Gly Arg Asp Cys
35 40

<210> 193

<211> 33
 <212> PRT
 <213> Homo sapien

<400> 193

Met Ser Asn Glu Ile Glu Thr Val Ile Lys Ser Leu Pro Lys Lys Lys
 1 5 10 15

Ser Pro Thr Leu Asp Asn Phe Thr Ala Glu Phe Tyr Glu Asn Phe Lys
 20 25 30

Val

<210> 194
 <211> 71
 <212> PRT
 <213> Homo sapien

<400> 194

Met Thr Arg Lys Met Lys Glu Gly Trp Gly Lys Lys Lys Asn Ser Gly
 1 5 10 15

Thr Arg Arg Lys Val Arg Val Pro Ile Asp Thr Ser Asn Leu Phe Gly
 20 25 30

Val Lys Lys Thr Ile Asn Val Leu Thr Lys Ala Val Phe Thr Lys Ser
 35 40 45

Pro Cys Ile Lys Gly Lys Met Leu Ile Tyr Phe His Asn Leu Cys Asn
 50 55 60

Thr Ser Lys Asp Asn Phe Phe
 65 70

<210> 195
 <211> 34
 <212> PRT
 <213> Homo sapien

<400> 195

Met Leu Ser Thr Met Leu Ser Ile Ser Arg Val Leu Phe His Leu Ile
 1 5 10 15

Phe Ser Lys Ser Pro Glu Arg Tyr Met Val Leu Leu Val Ile Phe Ser
 20 25 30

Lys Leu

<210> 196
<211> 26
<212> PRT
<213> Homo sapien

<400> 196

Met Trp Asn Thr Asn Gly Glu Val Leu Ile Gly Gly Arg Asp Phe Leu
1 5 10 15

Lys Arg Asn Lys Glu Val Lys Met Val Lys
20 25

<210> 197
<211> 35
<212> PRT
<213> Homo sapien

<400> 197

Met Ser Ala Ser Cys Phe Ser Gln Trp Leu Phe Trp Phe Leu Gly Phe
1 5 10 15

Met Ser Ile Asn Tyr Asn Thr Cys Ala Ile Lys Cys Thr Gly Arg Ile
20 25 30

Leu Thr His
35

<210> 198
<211> 90
<212> PRT
<213> Homo sapien

<400> 198

His Ile Thr Pro Gln Ala Gly Val Ala Trp Phe Asp Leu Gly His Cys
1 5 10 15

Asn Leu Tyr Leu Pro Gly Ser Asn Tyr Ser His Ala Ser Ala Ser Gln
20 25 30

Ile Ser Gly Ile Thr Asp Val Glu His His Ala Trp Leu Ile Phe Val
35 40 45

Phe Leu Val Glu Met Glu Phe Leu His Phe Cys Gln Ala Gly His Lys

81

50

55

60

Leu Leu Thr Leu Cys Asp Pro Pro Thr Leu Ala Ser Gln Ile Ala Glu
65 70 75 80

Ile Thr Gly Ala Ser His His Ala Gln Pro
85 90

<210> 199
<211> 48
<212> PRT
<213> Homo sapien

<400> 199

Met Cys Ile Val Gly Lys Gly Leu Trp Glu Glu Asn Ser Glu Thr Leu
1 5 10 15

Arg Arg Thr Ile Asn Cys Glu Asn Pro Ser Gly Arg Gln Tyr Ser Asp
20 25 30

Asn Lys Ile Phe Lys Glu Cys Phe Lys Asn Leu Lys Ile Leu Tyr Leu
35 40 45

<210> 200
<211> 53
<212> PRT
<213> Homo sapien

<400> 200

Met Ala Ile Arg Leu Val Asp Tyr Tyr Ile Phe Ala Leu Val Ala Leu
1 5 10 15

Cys Phe Lys His His Ile Gln Thr Ile Ile Pro Lys Thr Asn Val Lys
20 25 30

Lys Ile Phe Leu Leu Cys Phe Leu Leu Arg Ser Phe Ile Ile Ser Gly
35 40 45

Pro Val Cys Asn Leu
50

<210> 201
<211> 102
<212> PRT
<213> Homo sapien

<400> 201

Met Gln His Arg Leu Gly Leu Tyr Ile Thr Arg Leu Leu Arg Ser Cys
1 5 10 15

Arg Leu Val Val Thr Tyr Asp Ala Ser Tyr Leu Asn Pro Ser Gly Ala
20 25 30

Met Val Ser Ser Asn His Asp Lys Met Glu Thr Ile Lys Met Ser Asn
35 40 45

Gly Arg Gly Gly Tyr Thr His Ser Gln Cys Met Ile Pro Asn Asn Lys
50 55 60

Thr Asn Lys Asn His Thr His Lys Pro Glu Ala Leu Thr Gly Pro Arg
65 70 75 80

Asp Pro Arg Pro Glu Pro Arg Asp Thr Trp Asn Lys Ile Ala Ser Thr
85 90 95

Pro Arg Gly Ala Gly Lys
100